



DC ELECTRIC VEHICLE CHARGER

- DC EV Charger 20KW-360KW
- DC Coupling Type DC EV Charger 30KW-240KW



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About Us

OUR STORY

Looking back...

Fida International (S) Pte Ltd has been a provider of technologically innovative and user-friendly products manufactured under the brand name "Prolink" since 1991. With more than two decades of professional experience in the information communications sector, Prolink is now renowned as a specialist in its field, especially in the area of Back-up UPS products.

Over the years, Prolink has built its presence through a strong foundation of technological leadership within the South Asian, South-east Asian and Middle Eastern regions and is continuing to build its presence worldwide. With its current network of sales offices in more than 20 countries, customers can be assured that Prolink is able to provide the right solutions to meet the needs of both home and business users within each geographical location both efficiently and effectively.

The company's quest for continuous improvement and quality assurance to its customers has earned us the ISO9001 quality certification since 1999. With its consistently strong commitment to quality, customers can be assured that they are getting true value - superior quality products at affordable prices.

OUR MISSION

ACCENTUATE THE BEST FOR THE E-GENERATION

Prolink aspires to accentuate the best for the e-generation. With technology becoming an essential aspect of modern living, the e-generation concept has gradually become ingrained in our lives and digital literacy is becoming more and more commonplace.

Prolink products are designed to make technology work for the e-generation. Created with the end-user in mind, our products are crafted to enhance performance whether you are at work or play - our products work harder, while you work smarter to achieve your desired results with less effort and better efficiency.



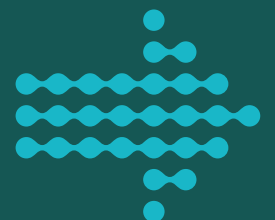
Providing value to our consumers - whether home or business users, remains a firm commitment of Prolink. With its wide range of quality products, Prolink makes it easy for home users to find user-friendly yet affordable solutions for their technological needs, while business users are assured of reliable and secure solutions for their network infrastructure.

OUR VISION

IDEAS, INNOVATION AND INFORMATION

Prolink aims to be the key driving force behind technological changes and improvements in both developing and developed countries. With its strong focus on technology, our team sets high standards for itself in the areas of innovation, change and improvement so as to provide the next generation of users with products that are suitable for their technology advanced environments.

The small "i" in Prolink represents ideas, innovation and information - three key pillars of growth that drive us towards achieving excellence in our field of expertise and challenges us to think beyond our usual boundaries.



About Us



CORE VALUES

SECURED INFORMATION MANAGEMENT

With more than two decades of professional experience in providing backup power solutions to our customers, we are able to support our customers with superior technological know-how and expertise, as well as advice on market trends. At the same time, we are also fully committed to protecting the privacy of our customers and to manage confidential information discreetly.

INNOVATIVE DESIGN

Our products are carefully thought out to ensure that each item is designed to meet the needs of our customers. With the team's solid experience in the UPS market, customers can be certain that our designs are innovative yet functional, and suitable for each dynamic market that we have a presence in.

SUPERIOR SERVICE STANDARDS

Strict and rigorous testing makes up a huge part of our quality control procedures. We ensure that every item meets our strict standards – from the individual components to the actual finished product.

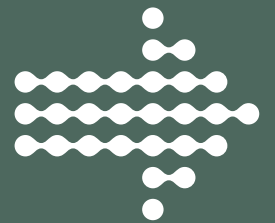
TOTAL QUALITY ASSURANCE SYSTEM

Our products go through careful planning and checks at every stage of the production cycle – from the beginning stages of product design to the manufacturing and finally the actual delivery of the goods. This guarantees that our customers receive only the best quality goods – of high reliability and durability. Our total quality system has been audited and approved by globally recognized bodies.

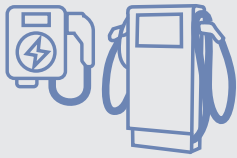


DC EV CHARGER

20KW – 360KW



PRODUCT HIGHLIGHTS



Solid Wallbox Design / Floor Mounting Type

IP54 / IP65 & IK10 rated enclosure
IP55 rated connector



Touch Screen LCD / LED

7" touch screen LCD, 15.6" or 32" LCD option for 300kW/360kW model



System Protection

Overcurrent, overvoltage, undervoltage, ground fault, integrated surge protection, leakage current, over-temperature protection



Communication Protocol

OCPP 1.6J (OCPP 2.0.1 implementation in progress)



Application

Commercial (Integration with charging management system via OCPP)



Design Standards

Compliance to Singapore's EV charging standard - TR25:2022



Third Party Certificates

SGS Certified
CE Certificates with ILAC-MRA endorsement on the test reports

MODEL SELECTION

	PEV 5400W-DM/ PEV 6500W-DM		PEV 5400G-DM		PEV 5400S-DM
Prolink DC EV Chargers					
Casing Type	Metal				
Rated Power	20kW/30kW	30kW~60kW	120kW~240kW	300kW/360kW	60kW~180kW
Application	Commercial				
Input Voltage	380VAC~415VAC 3 Ph + N + E				
Output Voltage	200~1000VDC				
Frequency	50Hz/60Hz				
Display	7" Touch Screen LCD				
15.6" / 32" LCD Option	✗	✗	✗	✓	✗
RFID	✓	✓	✓	✓	✓
3G/4G/LTE	✓	✓	✓	✓	✓
Ethernet (RJ45)	✓	✓	✓	✓	✓
OCPP	✓	✓	✓	✓	✓
EPO	✓	✓	✓	✓	✓
Mobile App	✓	✓	✓	✓	✓
EPO	✓	✓	✓	✓	✓
Over Voltage / Under Voltage Protection	✓	✓	✓	✓	✓
Over Current Protection	✓	✓	✓	✓	✓
Over Temperature Protection	✓	✓	✓	✓	✓
Ground Fault Protection	✓	✓	✓	✓	✓
Leakage Current Protection	✓	✓	✓	✓	✓
Surge Protection	✓	✓	✓	✓	✓
Protection Degree	IP54/65 & IK10 (Enclosure) IK8 (Touch Screen) IP55 (Connector)		IP54 & IK10 (Enclosure) IK8 (Touch Screen) IP55 (Connector)		
Operating Temperature	-35 °C to +55 °C				
Front Opening	✗	✗	✓	✓	✓
Default Installation Type	Wall Mounting		Floor Mounting		
Pedestal Mounting	Optional		✗	✗	✗
Cable Length	5.0m (default) / 7.5m (optional)				
Connector	CCS-2				
Singapore EV Charging Standard	TR25:2022				
Applicable IEC Standards	Charger: IEC 61851-1, IEC 61851-21-2 IEC 61851-23, IEC 61851-24 Connector: IEC 62196-1, IEC 62196-3				
Third Party Certifications	SGS Certs and Test Reports with ILAC-MRA endorsement				

PEV5400W-DM | 20KW~30KW



IP54 Rated



User Friendly



Touch Screen



Commercial



Wide DC Output Voltage Range



Fast charging



High Efficiency



EU Type 2
CCS2
(IEC 62196-3)



Japan
CHAdeMO
(Optional)

- Wall mounting type (pedestal mounting option available)
- IP54 and IK10 rated metal enclosure; IP55 rated connector
- Supports multiple charging standards (GB, CCS2 and CHAdeMO)
- Constant output power at wide DC voltage range 300V to 1000V, faster charging efficiency
- Dedicated LED status indicator light for each charging mode
- Multilingual support for 7" coloured touch screen LCD
- Maximum efficiency up to 93%
- THDi < 5% at full load
- Built-in RFID card reader
- Supports OCPP 1.6 JSON network and 3G/4G
- Adapting OCPP network security protocol to implement the OTA feature
- Cloud network protocol verified by OCTT
- Vehicle end protocol DIN 70121, ISO15118 verified by TUV
- Linux 5.10 OS and CPU conformed with cybersecurity standards
- Singapore TR25:2022 charging standard compliance
- SGS certified and CE certification with ILAC-MRA endorsement
- Passed rigorous environmental and thermal shock tests from -35°C to 55°C to ensure the system reliability

OVERVIEW

Charging Controller

7-inch colour touch screen

Operating light

Charging status

Built-in RFID Card Reader

Equipped with Wi-fi, 4G, OCPP

CCS2

CHAdeMO

EPO



Specifications

MODEL	PEV5420W-DM	PEV5430W-DM
Charging Type	DC fast charging	
Outlet Options	CCS2 (Default), CHAdeMO (Optional), GB/T (Optional)	
AC Input Power	31A, 20KW @ 400V 50Hz	48 A, 33 kVA @ 400V 50Hz
Input Voltage Range	380/400/415 VAC	
Input Frequency	50 Hz or 60 Hz	
DC Output Power Rating (MAX)	20 kW	30 kW
DC Output Voltage	200-1000 Vdc (Constant power from 300-1000Vdc)	
Number of EV Served	1	
Cable Length	5.0 m, Optional: 6.0 m / 7.0 m	
Maximum Current	CCS Cables	100A
	CHAdeMO Cables	100A
	GBT Cables	100A
Electro-Magnetic Compatibility	Class A (optional Class B) according to EN 61000-6-3:2007	
Distribution Systems	TN-S, TN-C, TN-C-S, TT (required external RCD)	
Connector Type	3P + N + PE	
Protection	Overcurrent, overvoltage, undervoltage, integrated surge protection, ground fault including DC leakage protection, door opening protection	
Overvoltage Category	Type II	
Power Factor (Full Load)	≥ 0.98	
THDi	≤ 5%	
Efficiency	93% (peak)	
Standby Power	< 35 W	
Short Circuit Current	10 kA	
Pre-charge Current	< 1 A	
Inrush Current	< 55 A	
Leakage Current	0.8 mA	
Energy Metering	Standard: Meter for DC outlet, Optional: AC inlet	
Cellular Communication	GSM, 4G, LTE	
USER INTERFACE		
Connectivity	Internet access via 4G/3G/Ethernet (RJ45)	
User Authentication	RFID, QR code	
User Interface	7" LCD high-contrast touchscreen	
Communication Protocols	Proprietary and OCPP 1.6j	
RFID Reader	ISO/IEC 14443 A/B Mifare RFID reader	
Emergency Button	Yes	
CONFIGURATION		
Software Upgrade	Over-The-Air (OTA)	
Language System	English, Chinese, French, Spanish	
GENERAL CHARACTERISTIC		
Protection Rating	IP54 and IK10 (cabinet) / IK8 (touchscreen)	
Housing Material	SGCC, Optional: SUS430	
Operating Altitude	Up to 2000 m	
Operating Temperature	-35 °C to 55 °C	
Storage Temperature	-40 °C to 70 °C	
Humidity	< 95%, non-condensing	
Mounting	Wall-mount or pedestal stand (Optional)	
Dimensions (D x W x H) mm	200 x 450 x 600	
Net Weight (kgs)	44	
COMPLIANCE STANDARDS		
Codes & Standards	TR25:2022 (Charger: IEC 61851-1, IEC 61851-21-2; IEC 61851-23, IEC 61851-24, Connector: IEC 62196-1, IEC 62196-3) IEC 61000, GBT18487, GBT20234, NB/T 33008.1, NB/T 33001	
Communication to the EV	DIN 70121, ISO/IEC 15118, CHAdeMO 1.2, GBT27930, GBT 34657, GBT34658	

Product specifications are subject to change without further notice

PEV6520W-DM | 20KW



IP65 Rated



User Friendly



Touch Screen



Commercial



Wide DC Output Voltage Range



Fast charging



High Efficiency



EU Type 2
CCS2
(IEC 62196-3)



Japan
CHAdeMO
(Optional)



- Wall mounting type (pedestal mounting option available)
- IP65 and IK10 rated metal enclosure; IP55 rated connector
- Supports multiple charging standards (GB, CCS2 and CHAdeMO)
- Constant output power at wide DC voltage range 300V to 1000V, faster charging efficiency
- Dedicated LED status indicator light for each charging mode
- Multilingual support for 7" coloured touch screen LCD
- Maximum efficiency up to 93%
- THDi < 5% at full load
- Built-in RFID card reader
- Supports OCPP 1.6 JSON network and 3G/4G
- Adapting OCPP network security protocol to implement the OTA feature
- Cloud network protocol verified by OCTT
- Vehicle end protocol DIN 70121, ISO15118 verified by TUV
- Linux 5.10 OS and CPU conformed with cybersecurity standards
- Singapore TR25:2022 charging standard compliance
- SGS certified and CE certification with ILAC-MRA endorsement
- Passed rigorous environmental and thermal shock tests from -35°C to 55°C to ensure the system reliability

OVERVIEW

Charging Controller

7-inch colour touch screen

Built-in RFID Card Reader

Equipped with Wi-fi, 4G, OCPP

CHAdeMO

Operating light

Charging status

CCS2

EPO



Specifications

MODEL	PEV6520W-DM	
Charging Type	DC fast charging	
Outlet Options	CCS2 (Default), CHAdeMO (Optional), GB/T (Optional)	
AC Input Power	32 A, 22 kVA @ 400V 50Hz	
Input Voltage Range	380/400/415 VAC	
Input Frequency	50 Hz or 60 Hz	
DC Output Power Rating (MAX)	20 kW	
DC Output Voltage	200-1000 Vdc	
Number of EV Served	1	
Cable Length	5.0 m, Optional: 6.0 m / 7.0 m	
Maximum Current	CCS Cables	80A
	CHAdeMO Cables	60A
	GBT Cables	60A
Electro-Magnetic Compatibility	Class A (optional Class B) according to EN 61000-6-3:2007	
Distribution Systems	TN-S, TN-C, TN-C-S, TT (required external RCD)	
Connector Type	3P + N + PE	
Protection	Overcurrent, overvoltage, undervoltage, integrated surge protection, ground fault including DC leakage protection	
Overvoltage Category	Type II	
Power Factor (Full Load)	≥ 0.98	
THDi	≤ 5%	
Efficiency	93% (peak)	
Standby Power	< 35 W	
Short Circuit Current	10 kA	
Pre-charge Current	< 1 A	
Inrush Current	< 55 A	
Leakage Current	0.8 mA	
Energy Metering	Standard: Meter for DC outlet, Optional: AC inlet	
Cellular Communication	GSM, 4G, LTE	
USER INTERFACE		
Connectivity	Internet access via 4G/3G/Ethernet (RJ45)	
User Authentication	RFID, QR code	
User Interface	7" LCD high-contrast touchscreen	
Communication Protocols	Proprietary and OCPP 1.6j	
RFID Reader	ISO/IEC 14443 A/B Mifare RFID reader	
Emergency Button	Yes	
CONFIGURATION		
Software Upgrade	Over-The-Air (OTA)	
Language System	English, Chinese, French, Spanish	
GENERAL CHARACTERISTIC		
Protection Rating	IP65 and IK10 (enclosure) / IK8 (touchscreen) / IP55 (connector)	
Housing Material	SGCC, Optional: SUS430	
Operating Altitude	Up to 2000 m	
Operating Temperature	-35 °C to 55 °C	
Storage Temperature	-40 °C to 70 °C	
Humidity	< 95%, non-condensing	
Mounting	Wall-mount or pedestal stand (Optional)	
Dimensions (D x W x H) mm	200 x 450 x 600	
Net Weight (kgs)	44	
COMPLIANCE STANDARDS		
Codes & Standards	TR25:2022 (Charger: IEC 61851-1, IEC 61851-21-2; IEC 61851-23, IEC 61851-24, Connector: IEC 62196-1, IEC 62196-3) IEC 61000, GBT18487, GBT20234, NB/T 33008.1, NB/T 33001	
Communication to the EV	DIN 70121, ISO/IEC 15118, CHAdeMO 1.2, GBT27930, GBT 34657, GBT 34658	

Product specifications are subject to change without further notice



PEV5400G-DM | 30KW~60KW

IP54 Rated

User Friendly

Touch Screen

Commercial

Wide DC Output Voltage Range

Fast charging

High Efficiency

OCPP



EU Type 2
CCS2
(IEC 62196-3)

Japan
CHAdeMO
(Optional)

- Floor mounting type
- IP54 and IK10 rated metal enclosure; IP55 rated connector
- Supports multiple charging standards (GB, CCS2 and CHAdeMO)
- Constant output power at wide DC voltage range 300V to 1000V, faster charging efficiency
- UL approved DC power module (to sustain the dusty and salty air tests to improve environmental adaptability)
- Dedicated LED status indicator light for each charging mode
- Multilingual support for 7" coloured touch screen LCD
- Maximum efficiency up to 93%
- THDi < 5% at full load
- Built-in RFID card reader
- Supports OCPP 1.6 JSON network and 3G/4G
- Adapting OCPP network security protocol to implement the OTA feature
- Cloud network protocol verified by OCTT
- Vehicle end protocol DIN 70121, ISO15118 verified by TUV
- Linux 5.10 OS and CPU conformed with cybersecurity standards
- Singapore TR25:2022 charging standard compliance
- SGS certified and CE certification with ILAC-MRA endorsement
- Passed rigorous environmental and thermal shock tests from -35°C to 55°C to ensure the system reliability

OVERVIEW

Operating light
Charging status

Charging controller
7-inch colour touch screen Built-in RFID card reader Equipped with Wifi, 4G OCPP

Low noise
Standby low energy consumption (patent)

Charger nozzle
GB, CCS1, CCS2, CHAdeMO

EPO

Charging module
DC300-1000V

Charging module
DC300-1000V

Product Selection Guide

Model	Power module #	DC charger nozzle #	AC charger nozzle #	Dimension
PEV5430G-DM	1	up to 2	N/A	235.5 x 660 x 1250
PEV5460G-DM	2	up to 2	N/A	

Specifications

MODEL	PEV5430G-DM	PEV5460G-DM
Charging Type	DC fast charging	
Outlet Options	CCS2 (Default), CHAdeMO (Optional), GB/T (Optional)	
AC Input Power @ 400V 50Hz	48 A, 33 kVA	93 A, 64 kVA
Input Voltage Range	380/400/415 VAC	
Input Frequency	50 Hz or 60 Hz	
DC Output Power Rating	30 kW	60 kW
DC Output Voltage	200-1000 Vdc (Constant power from 300-1000Vdc)	
Number of EV Served	1	Up to 2
Cable Length	5.0 m, Optional: 6.0 m / 7.0 m	
Maximum Current	CCS Cables	200 A
	CHAdeMO Cables	125 A
	GBT Cables	200 A
Electro-Magnetic Compatibility	Class A (optional Class B) according to EN 61000-6-3:2007	
Distribution Systems	TN-S, TN-C, TN-C-S, TT (required external RCD)	
Connector Type	3P + N + PE	
Protection	Overcurrent, overvoltage, undervoltage, integrated surge protection, ground fault including DC leakage protection, door opening protection	
Overvoltage Category	Type II	
Power Factor (Full Load)	≥ 0.98	≥ 0.99
THDi	≤ 5%	
Efficiency	≥ 93% (peak)	
Standby Power	< 35 W	
Short Circuit Current	10 kA	
Pre-charge Current	< 1 A	
Inrush Current	< 55 A	< 100 A
Leakage Current	0.8 mA	
Energy Metering	Standard: Meter for DC outlet, Optional: AC inlet	
Cellular Communication	GSM / 4G/ LTE (Optional)	
USER INTERFACE		
Connectivity	Internet access via 4G/3G/Ethernet (RJ45)	
User Authentication	RFID, QR code	
User Interface	7" LCD high-contrast touchscreen	
Communication Protocols	Proprietary and OCPP 1.6j	
RFID Reader	ISO/IEC 14443 A/B Mifare RFID reader	
Emergency Button	Yes	
CONFIGURATION		
Software Upgrade	Over-The-Air (OTA)	
Language System	English, Chinese, French, Spanish	
GENERAL CHARACTERISTICS		
Protection Rating	IP54 and IK10 (enclosure) / IK8 (touchscreen) / IP55 (connector)	
Housing Material	SGCC, SUS430 (Optional)	
Operating Altitude	Up to 2000 m	
Operating Temperature	-35 °C to 55 °C	
Storage Temperature	-40 °C to 70 °C	
Humidity	20-95 % Rh non-condensing	
Mounting	Free-standing cabinet	
Dimensions (D x W x H) mm	235.5 x 660 x 1250	
Net Weight (kgs)	80	105
COMPLIANCE STANDARDS		
Codes & Standards	TR25:2022 (Charger: IEC 61851-1, IEC 61851-21-2; IEC 61851-23, IEC 61851-24, Connector: IEC 62196-1, IEC 62196-3) IEC 61000, GBT18487, GBT20234, NB/T 33008.1, NB/T 33001	
Communication to the EV	DIN 70121, ISO/IEC 15118, CHAdeMO 1.2, GBT27930, GBT 34657, GBT 34658	

Product specifications are subject to change without further notice

PEV5400G-DM | 120KW~240KW



IP54 Rated



User Friendly



Touch Screen



Commercial



Wide DC Output Voltage Range



Fast charging



High Efficiency



EU Type 2
CCS2
(IEC 62196-3)



Japan
CHAdeMO
(Optional)



- Floor mounting type
- IP54 and IK10 rated metal enclosure
- Supports multiple charging standards (GB, CCS2 and CHAdeMO)
- Constant output power at wide DC voltage range 300V to 1000V, faster charging efficiency
- UL approved DC power module (to sustain the dusty and salty air tests to improve environmental adaptability)
- Dedicated LED status indicator light for each charging mode
- Multilingual support for 7" coloured touch screen LCD
- Maximum efficiency up to 94%

- THDi < 5% at full load
- Built-in RFID card reader
- Supports OCPP 1.6 JSON network and 3G/4G
- Adapting OCPP network security protocol to implement the OTA feature
- Cloud network protocol verified by OCTT
- Vehicle end protocol DIN 70121, ISO15118 verified by TUV
- Linux 5.10 OS and CPU conformed with cybersecurity standards
- Singapore TR25:2022 charging standard compliance
- SGS certified and CE certification with ILAC-MRA endorsement
- Passed rigorous environmental and thermal shock tests from -35°C to 55°C to ensure the system reliability

OVERVIEW

Operating light

Charging status

Low noise

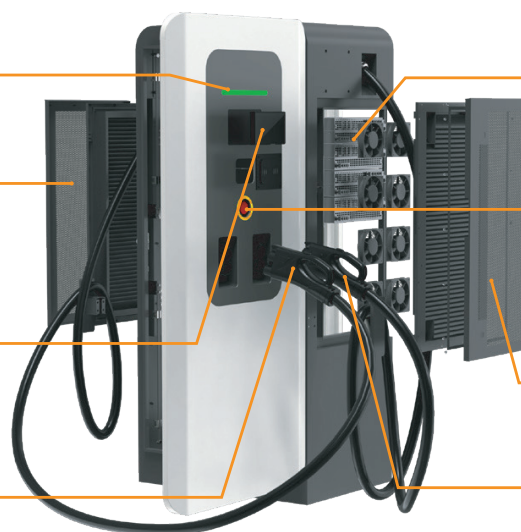
Standby low energy consumption (patent)

Charging controller

7-inch color touch screen
Built-in RFID card reader
Equipped with Wifi, 4G
OCPP

DC Charger nozzle

GB, CCS1, CCS2, CHAdeMO



Up to 8 charging modules

30kW DC200-1000V

EPO

Adapt to harsh environment

Optional filter device

DC Charger nozzle

GB, CCS1, CCS2, CHAdeMO

Product Selection Guide

Model	Power module #	DC charger nozzle #	AC charger nozzle #	Dimension
PEV54120G-DM	4	up to 2	N/A	640 x 750 x 1650
PEV54180G-DM	6	up to 2	N/A	640 x 750 x 1650
PEV54240G-DM	8	up to 2	N/A	

Specifications

MODEL	PEV54120G-DM	PEV54180G-DM	PEV54240G-DM	
Charging Type	DC fast charging	DC fast charging	DC fast charging	
Outlet Options	CCS2 (Default), CHAdeMO (Optional), GB/T (Optional)			
AC Input Power @ 400V 50Hz	192 A, 128 kVA	288A,192kVA	384A,256kVA	
Input Voltage Range	380/400/415 VAC			
Input Frequency	50 Hz or 60 Hz			
DC Outlet	DC Output Power Rating	120 kW	180 kW	240 kW
	DC Output Voltage	200-1000 Vdc (Constant power from 300-1000Vdc)		
	Number of EV Served	Up to 2		
	Cable Length	5.0 m, Optional: 6.0 m / 7.0 m		
	Maximum Current*	CCS Cables	200A	
CHAdeMO Cables		125A		
GBT Cables		250A		
Cable Length	5.0 m, Optional: 6.0 m / 7.0 m			
Electro-Magnetic Compatibility	Class A (optional Class B) according to EN 61000-6-3:2007			
Distribution Systems	TN-S, TN-C, TN-C-S, TT (required external RCD)			
Connector Type	3P + N + PE			
Protection	Overcurrent, overvoltage, undervoltage, integrated surge protection, ground fault including DC leakage protection, door opening protection			
Overvoltage Category	Type II			
Power Factor (Full Load)	≥ 0.99			
THDi	≤ 5%			
Efficiency	≥ 94% (peak)			
Standby Power	< 35 W			
Short Circuit Current	10 kA			
Pre-charge Current	< 1 A			
Inrush Current	< 100 A			
Leakage Current	0.8 mA			
Energy Metering	Standard: Meter for DC outlet, Optional: AC inlet			
Cellular Communication	GSM / 4G/ LTE			
USER INTERFACE				
Connectivity	Internet access via 4G/3G/Ethernet (RJ45)			
User Authentication	RFID, QR code			
User Interface	7" LCD high-contrast touchscreen			
Communication Protocols	Proprietary and OCPP 1.6J			
RFID Reader	ISO/IEC 14443 A/B Mifare RFID reader			
Emergency Button	Yes			
CONFIGURATION				
Software Upgrade	Yes			
Language System	English, Chinese, French, Spanish			
GENERAL CHARACTERISTICS				
Protection Rating	IP54 and IK10 (enclosure) / IK8 (touchscreen) / IP55 (connector)			
Housing Material	SGCC, Optional: SUS430			
Operating Altitude	Up to 2000 m			
Operating Temperature	-35 °C to +55 °C			
Storage Temperature	-40 °C to +70 °C			
Humidity	<95%, non-condensing			
Mounting	Free-standing cabinet			
Dimensions (D x W x H) mm	640 x 750 x 1650			
Net Weight (kgs)	175	326	370	
COMPLIANCE STANDARDS				
Codes & Standards	TR25:2022 (Charger: IEC 61851-1, IEC 61851-21-2; IEC 61851-23, IEC 61851-24, Connector: IEC 62196-1, IEC 62196-3) IEC 61000, GBT18487, GBT20234, NB/T 33008.1, NB/T 33001			
Communication to the EV	DIN 70121, ISO/IEC 15118, CHAdeMO 1.2, GBT27930, GBT 34657, GBT 34658			

*Cable can be customized upon request.
Product specifications are subject to change without further notice

PEV5400G-DM | 300KW-360KW



IP54 Rated



User Friendly



Touch Screen



Commercial



Wide DC Output Voltage Range



Fast charging



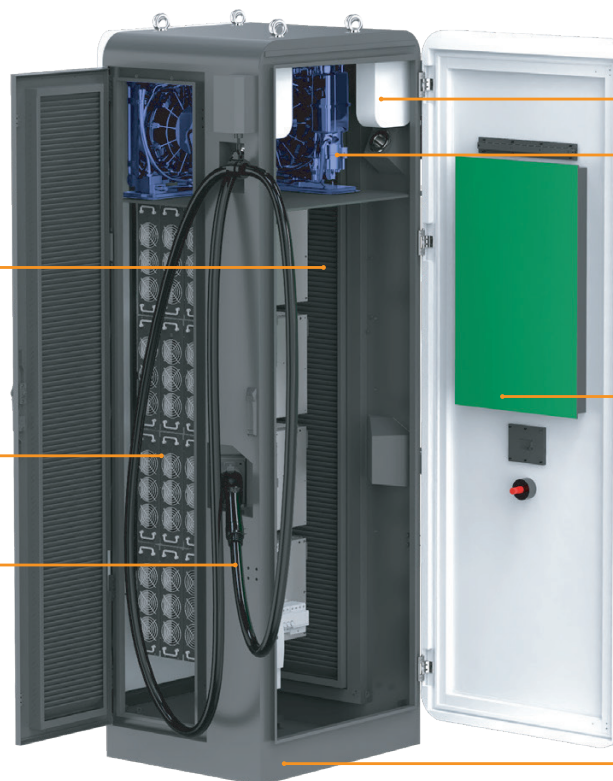
High Efficiency



- Floor mounting type
- IP54 and IK10 rated metal enclosure; IP55 rated connector
- Supports multiple charging standards (GB, CCS2 and CHAdeMO)
- Constant output power at wide DC voltage range 300V to 1000V, faster charging efficiency
- UL approved DC power module (to sustain the dusty and salty air tests to improve environmental adaptability)
- Dedicated LED status indicator light for each charging mode
- Multilingual support for 7" coloured touch screen, optional 15.6" or 32" LCD screen
- Maximum efficiency up to 94%

- THDi < 5% at full load
- Built-in RFID card reader
- Supports OCPP 1.6 JSON network and 3G/4G
- Adapting OCPP network security protocol to implement the OTA feature
- Cloud network protocol verified by OCTT
- Vehicle end protocol DIN 70121, ISO15118 verified by TUV
- Linux 5.10 OS and CPU conformed with cybersecurity standards
- Singapore TR25:2022 charging standard compliance
- SGS certified and CE certification with ILAC-MRA endorsement
- Passed rigorous environmental and thermal shock tests from -35°C to 55°C to ensure the system reliability

PRODUCT OUTLOOK



Digital connectivity for backend management systems and connected services

Charger comes equipped with an automatic intelligent power distribution feature, autonomously managing the total power for multiple EV's without any user configuration

300A Air cooled cable (Peak 500A)
Option 500A Liquid cooled cable

Cable holder

Liquid cooling unit

Advertisement screen (Optional) for user engagement and brand promotion

High brightness, intuitive touchscreen display for true barrier-free access and various customization opportunities

710 x 750mm Small footprint provides flexibility in installation and enables multiple parking scenarios

Specifications

MODEL		PEV54300G-DM	PEV54360G-DM
Charging Type		DC fast charging	DC fast charging
Outlet Options		CCS2 (Default), CHAdeMO (Optional), GB/T (Optional)	
AC Input Power @ 400V 50Hz		484A/320kVA	582A/384kW
Input Voltage Range		380/400/415 VAC	
Input Frequency		50 Hz or 60 Hz	
DC Outlet	DC Output Power Rating	300 kW	360 kW
	DC Output Voltage	200-1000 Vdc (Constant power from 300-1000Vdc)	
	Number of EV Served	Up to 2	
	Cable Length	5.0 m, Optional: 6.0 m / 7.0 m	
	Maximum Current*	CCS Cables	300A air cooled cable (Peak 500A) Optional 500A liquid cooled cable
CHAdeMO Cables		125A	125A
GBT Cables		250A	250A
Cable Length		5.0 m, Optional: 6.0 m / 7.0 m	
Electro-Magnetic Compatibility		Class A (optional Class B) according to EN 61000-6-3:2007	
Distribution Systems		TN-S, TN-C, TN-C-S, TT (required external RCD)	
Connector Type		3P + N + PE	
Protection		Overcurrent, overvoltage, undervoltage, integrated surge protection, ground fault including DC leakage protection, door opening protection	
Overvoltage Category		Type II	
Power Factor (Full Load)		≥ 0.99	
THDi		≤ 5%	
Efficiency		≥ 94% (peak)	
Standby Power		< 35 W	
Short Circuit Current		10 kA	
Pre-charge Current		< 1 A	
Inrush Current		< 100 A	
Leakage Current		0.8 mA	
Energy Metering		Standard: Meter for DC outlet, Optional: AC inlet	
Cellular Communication		GSM / 4G/ LTE	
USER INTERFACE			
Connectivity		Internet access via 4G/3G/Ethernet (RJ45)	
User Authentication		RFID, QR code	
User Interface		7" LCD high-contrast touchscreen, optional 15.6"/32" LCD display	
Communication Protocols		Proprietary and OCPP 1.6J	
RFID Reader		ISO/IEC 14443 A/B Mifare RFID reader	
Emergency Button		Yes	
CONFIGURATION			
Software Upgrade		Yes	
Language System		English, Chinese, French, Spanish	
GENERAL CHARACTERISTICS			
Protection Rating		IP55 and IK10 (enclosure) / IK8 (touchscreen) / IP55 (connector)	
Housing Material		SGCC, Optional: SUS430	
Operating Altitude		Up to 2000 m	
Operating Temperature		-35 °C to +55 °C	
Storage Temperature		-40 °C to +70 °C	
Humidity		< 95%, non-condensing	
Mounting		Free-standing cabinet	
Dimensions (D x W x H) mm		710 x 750 x 2200	
Net Weight (kgs)		608	672
COMPLIANCE STANDARDS			
Codes & Standards		TR25:2022 (Charger: IEC 61851-1, IEC 61851-21-2; IEC 61851-23, IEC 61851-24, Connector: IEC 62196-1, IEC 62196-3) IEC 61000, GBT18487, GBT20234, NB/T 33008.1, NB/T 33001	
Communication to the EV		DIN 70121, ISO/IEC 15118, GBT27930, GBT 34657, GBT 34658	

*Cable can be customized upon request.
Product specifications are subject to change without further notice



PEV5400S-DM | 60KW~180KW

IP54 Rated

User Friendly

Touch Screen

Commercial

Wide DC Output Voltage Range

Fast charging

High Efficiency

OCPP

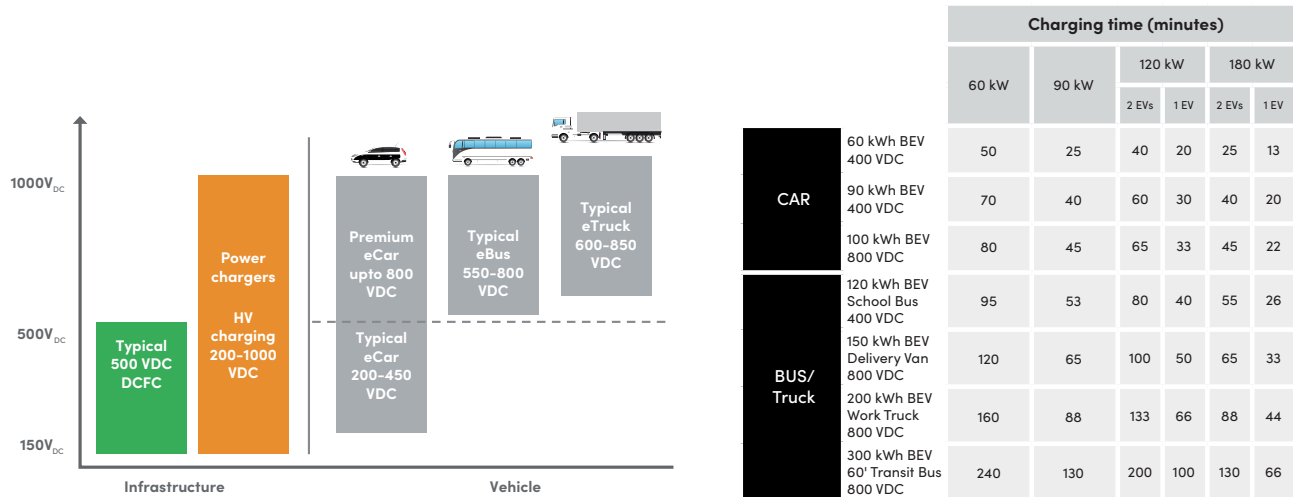
EU Type 2
CCS2
(IEC 62196-3)

Japan
CHAdeMO
(Optional)

- Standalone system type
- IP54 and IK10 rated metal enclosure; IP55 rated connector
- ECO energy saving mode
- Full-modularized design
- Supports multiple charging standards (GB, CCS2 and CHAdeMO)
- UL approved DC power module (to sustain the dusty and salty air tests to improve environmental adaptability)
- Dedicated LED status indicator light for each charging mode
- Multilingual support for 7" coloured touch screen LCD
- Maximum efficiency up to 95%
- THDi < 5% at full load
- Built-in RFID card reader
- Supports OCPP 1.6 JSON network and 3G/4G
- Adapting OCPP network security protocol to implement the OTA feature
- Cloud network protocol verified by OCTT
- Linux 5.10 OS and CPU conformed with cybersecurity standards
- Singapore TR25:2022 charging standard compliance
- SGS certified and CE certification with ILAC-MRA endorsement
- Passed rigorous environmental and thermal shock tests from -35°C to 55°C to ensure the system reliability

High Voltage Charging Capability

As electric vehicles advance, the need for high-voltage and quick-charging systems intensifies. This causes prioritization on the development of next-gen Direct Current fast chargers, focusing on increased power and reduced charging times.



OVERVIEW

Patent full modularized design



7" touch screen LCD display

In-built RFID reader and status indicator

EPO button to immediately stop charging station for security

Supports all types of charging (Customized length) guns

System power module

Control module

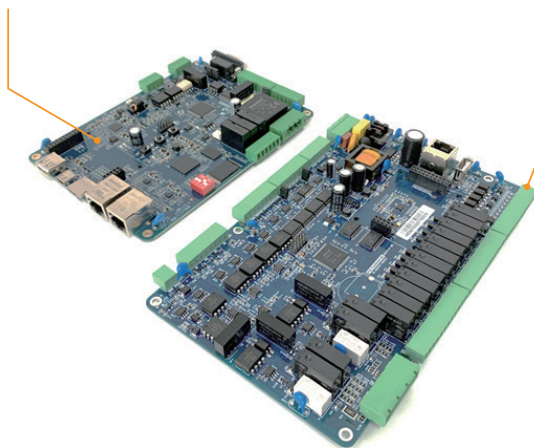
Power factor distribution module

Charging modules

Power distribution unit

In-house developed CCS and OCPP

- Integrated dual-gun control system with insulated circuits
- Integrated with protocol converter to implement GB, CCS1, CCS2 and CHAdeMO charging
- Software supports OCPP protocol to compliance with international standard
- Supports remote OTA to allow easy maintenance
- Supports to charge two vehicles simultaneously
- Hardware design meets the IV grade EMC standard to support 4G, Ethernet and DPU network connectivity.



In-house developed controllers

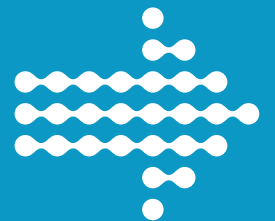
- CPU 120Mhz
- PN-OS embedded operating system
- Large capacity Flash & RAM
- 8 inputs and 15 outputs
- 6 analog
- 9-channel communication
- 2-channel insulation resistance test
- 2-channel control pilot
- 1-channel power source
- IV-grade EMC standard

Specifications

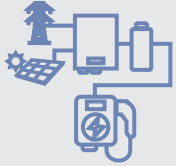
MODEL	PEV5460S-DM	PEV5490S-DM	PEV54120S-DM	PEV54150S-DM	PEV54180S-DM
Charging Type	DC fast charging				
Outlet Options	CCS2 (Default), CHAdeMO (Optional), GB/T (Optional)				
AC Input Power	93 A, 64 kVA @ 400V 50 Hz	139 A, 96 kVA @ 400V 50 Hz	185 A, 128 kVA @ 400V 50Hz	224A,160kVA @ 400V 50Hz	278 A, 192 kVA @ 400V 50Hz
Input Voltage Range	380/400/415 VAC				
Input Frequency	50 Hz or 60 Hz				
DC Output Power Rating	60 kW	90 kW	120 kW	150 kW	180 kW
DC Output Voltage	200-1000 Vdc (constant power from 300-1000 Vdc)				
Number of EV Served	Up to 2				
Cable Length	5 m default, optional 6.0 m/ 7.0 m				
Maximum Current	CCS Cables	150 A	150 A, Optional: 200A	200 A	200 A, Optional: 300 A
	CHAdeMO Cables	125 A	125 A	125 A, Optional: 200 A	125 A, Optional: 200 A
	GBT Cables	150 A	150 A	250 A	250 A
Electro-Magnetic Compatibility	Class A (optional Class B) according to EN 61000-6-3:2007				
Network Type	TN-S, TN-C, TN-C-S, TT (required external RCD)				
Connector Type	3P + N + PE				
Protection	Overcurrent, overvoltage, undervoltage, integrated surge protection, grounding fault including DC leakage protection, door opening protection				
Overvoltage Category	Type II				
Power Factor (Full Load)	≥ 0.99				
THDi	≤ 5%				
Efficiency	94% (peak)				95% (peak)
Standby Power	< 35W				
Short Circuit Current	10 kA				
Pre-charge Current	< 1 A				
Inrush Current	< 100 A				
Leakage Current	0.8 mA				
Energy Metering	Standard: Meter for DC outlet, Optional: AC inlet				
Cellular Communication	GSM, 4G, LTE				
USER INTERFACE					
Connectivity	Internet access via a 4G/3G/Ethernet (RJ45)				
User Authentication	RFID, QR code				
User Interface	7" LCD high-contrast touchscreen				
Communication Protocols	Proprietary and OCPP 1.6j				
RFID Reader	ISO/IEC 14443 A/B Mifare RFID reader				
Emergency Button	Yes				
CONFIGURATION					
Software Upgrade	Over-The-Air (OTA)				
Language System	English, Chinese, French, Spanish				
GENERAL CHARACTERISTICS					
Protection Rating	IP54 and IK10 (enclosure) / IK8 (touchscreen) / IP55 (connector)				
Housing Material	SGCC, Optional: SUS430				
Operating Altitude	Up to 2000m				
Operating Temperature	-35 °C to 55 °C				
Storage Temperature	-40 °C to 70 °C				
Humidity	< 95%, non-condensing				
Mounting	Free-standing cabinet				
Dimensions (D x W x H) mm	750 x 740 x 1830				
Net Weight (kgs)	295	335	355	375	395
COMPLIANCE STANDARDS					
Codes & Standards	TR25:2022 (Charger: IEC 61851-1, IEC 61851-21-2; IEC 61851-23, IEC 61851-24, Connector: IEC 62196-1, IEC 62196-3) IEC 61000, GB/T18487, GB/T20234, NB/T 33008.1, NB/T 33001				
Communication to the EV	DIN 70121, ISO/IEC 15118 ed 1, CHAdeMO 1.2, GBT27930, GBT 34657				

Product specifications are subject to change without further notice

DC COUPLING TYPE DC EV CHARGER



PRODUCT HIGHLIGHTS



DC Coupling Type DC EV Charger

Input 600~800VDC / Output 150~1000VDC



Touch Screen LCD

7" touch screen LCD with lightbox ads panel, 15.6" or 32" LCD option available



Complete System Integration with Solar inverter and Battery

Energrid 30K/50K Solar Inverter + Energy Cube 605 / Energy Hub 1228



Higher Rating Enclosure Protection Class for Inverter and EV Charger

IP65 (Solar Inverter)
IP54/IK10 (EV Charger)
IP55 (Connector)



System Protection

Overcurrent, overvoltage, undervoltage, ground fault, integrated surge protection, over temperature



Communication Protocol

OCPP 1.6J (OCPP 2.0.1 implementation in progress)



Application

Commercial (Integration with charging management system via OCPP)



Design standard & Third Party Certificate

Compliance to Singapore TR25:2022 Standard
SGS certified and CE certification with ILAC-MRA endorsement



PEV 5400GD-DM | 30KW- 240KW



IP54 Rated



User Friendly



Touch Screen



Commercial



Wide DC Output Voltage Range



Fast charging



High Efficiency



30KW/60KW



120KW-240KW

- DC coupling technology, connected to the energy storage battery
- Optional booster mode to shorten charging time and improve efficiency
- Floor mounting type
- IP54 rated metal enclosure; IP55 rated connector
- Supports multiple charging standards (GB, CCS2 and CHAdeMO)
- Constant output power at wide DC voltage range 150V to 1000V, faster charging efficiency
- UL approved DC power module (to sustain the dusty and salty air tests to improve environmental adaptability)
- Dedicated LED status indicator light for each charging mode
- Multilingual support for 7" coloured touch screen LCD
- Maximum efficiency up to 94%
- Built-in RFID card reader
- Supports OCPP 1.6 JSON network and 3G/4G
- Adapting OCPP network security protocol to implement the OTA feature
- Cloud network protocol verified by OCTT
- Vehicle end protocol DIN 70121, ISO15118 verified by TUV
- Linux 5.10 OS and CPU conformed with cybersecurity standards
- Third-party certified CE EN61851
- Passed rigorous environmental and thermal shock tests from -35°C to 55°C to ensure the system reliability

Alternative Outlook (with lightbox ads panel)



30KW/60KW



120KW-240KW



Product Selection Guide

Model	Power module #	DC charger nozzle #	Dimension (D x W x H, mm)
PEV 5430GD-DM	1	1	235.5 x 660 x 1250
PEV 5460GD-DM	2	up to 2	
PEV 54120GD-DM	4	up to 2	700 x 600 x 1600
PEV 54180GD-DM	6	up to 2	
PEV 54240GD-DM	8	up to 2	



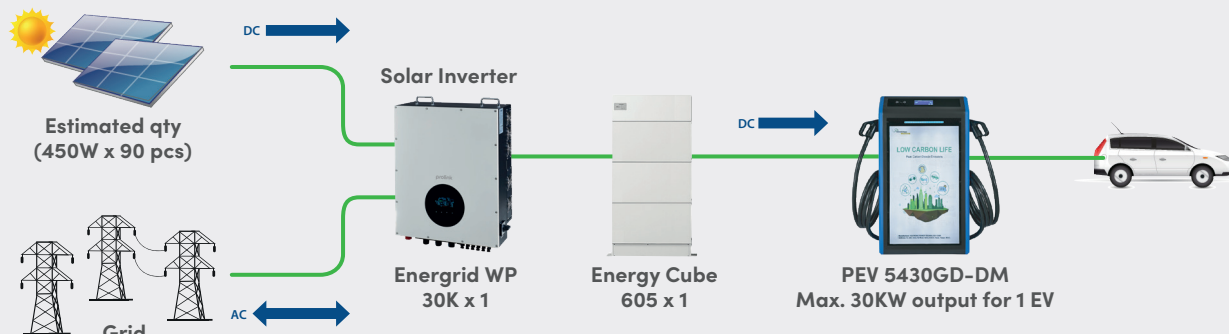
Specifications

MODEL		PEV 5430GD-DM	PEV 5460GD-DM	PEV 54120GD-DM	PEV 54180GD-DM	PEV 54240GD-DM
Charging Type		DC fast charging				
Outlet Options		CCS2 (Default), CHAdeMO (Optional), GB/T (Optional)				
DC Input Voltage Range		600-800V				
DC Input Power @ 600VDC		54 A, 33 kW	108 A, 64 kW	212 A, 128 kW	316 A, 190 kW	422 A, 253 kW
DC Outlet	DC Output Power Rating	30 kW	60 kW	120 kW	180 kW	240 kW
	DC Output Voltage	150-1000 Vdc (Constant power from 300-1000Vdc)				
	Number of EV Served	1	Up to 2	Up to 2	Up to 2	
	Maximum Current*	CCS Cables	100A	200A	400A	400A
CHAdeMO Cables		100A	125A	125A	125A	125A
GBT Cables		100A	200A	250A	250A	250A
Cable Length		5.0 m, Optional: 6.0 m / 7.0 m				
Electro-Magnetic Compatibility		Class A (optional Class B) according to EN 61000-6-3:2007				
Distribution Systems		Direct Current (DC) System				
Connector Type		DC 2-Pole connector (Positive/Negative) with Ground				
Protection		Reverse Polarity Protection, Overcurrent, overvoltage, undervoltage, surge protection, ground fault, door safety protection, flood detection protection				
Efficiency		94% (peak)		95% (peak)		
Standby Power		< 35 W				
Pre-charge Current		< 1 A				
Leakage Current		0.8 mA				
Energy Metering		Meter for DC inlet and DC outlet				
Cellular Communication		GSM, 4G, LTE				
USER INTERFACE						
Connectivity		4G/3G/Ethernet (RJ45)				
User Authentication		RFID, QR code				
User Interface		7" LCD high-contrast touchscreen, optional 15.6" or 32" LCD display				
Communication Protocols		Proprietary and OCPP 1.6j				
RFID Reader		ISO/IEC 14443 A Mifare RFID reader				
Emergency Button		Yes				
CONFIGURATION						
Software Upgrade		Yes				
Language System		English, Chinese, French, Spanish				
GENERAL CHARACTERISTICS						
Protection Rating		IP54 and IK10 (enclosure) / IK8 (touchscreen) / IP55 (connector)				
Housing Material		SGCC, Optional: SUS430				
Operating Altitude		Up to 2000 m				
Operating Temperature		-35 °C to +55 °C				
Storage Temperature		-40 °C to +70 °C				
Humidity		<95%, non-condensing				
Mounting		Free-standing cabinet				
Dimensions (D x W x H) mm		235.5 x 660 x 1250			600 x 700 x 1600	
Net Weight (kgs)		80	135	175	326	370
COMPLIANCE STANDARDS						
Codes & Standards		IEC/EN 61851-1, IEC 61851-23, IEC 61851-24, IEC 62196-1, IEC 62196-3, GB/T18487, GB/T20234				
Communication to the EV		DIN 70121, ISO/IEC 15118, CHAdeMO, GBT27930, GBT 34657, GBT 34658				

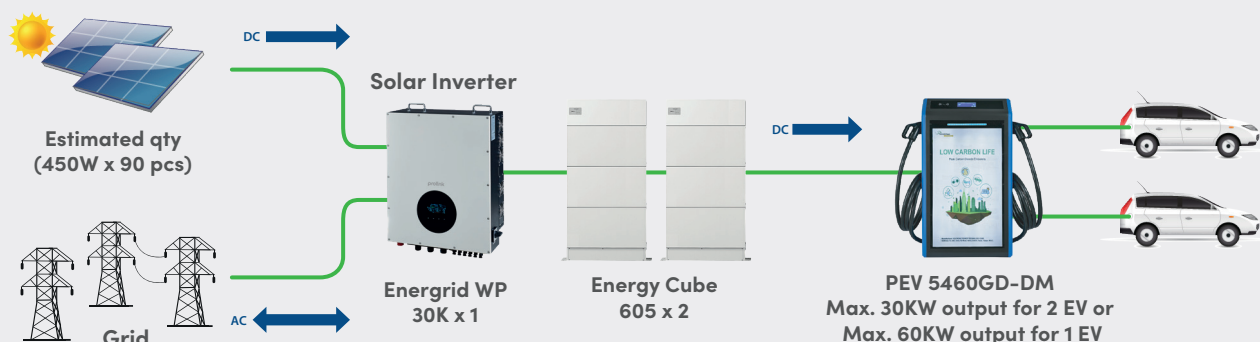
*Cable can be customized upon request.
Product specifications are subject to change without further notice

System Configuration

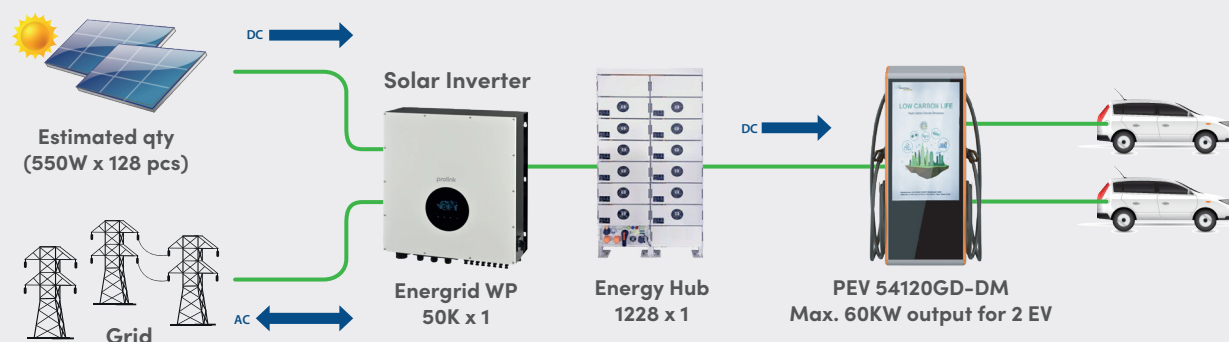
DC Coupling Type 30KW DC EV Charger System with Solar and Energy Storage



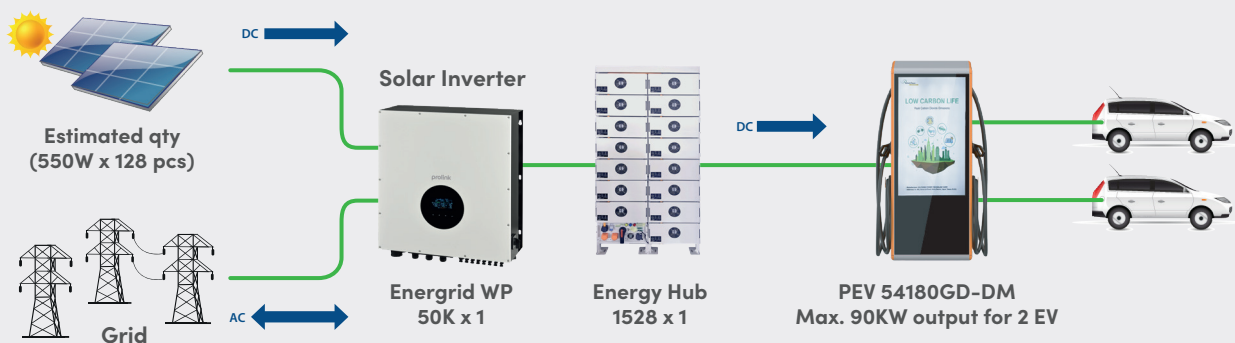
DC Coupling Type 60KW DC EV Charger System with Solar and Energy Storage



DC Coupling Type 120KW DC EV Charger System with Solar and Energy Storage

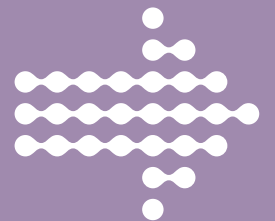


DC Coupling Type 180KW DC EV Charger System with Solar and Energy Storage



Complete system configurations are subject to change without further notice

DC EV CHARGER WITH SOLAR AND ENERGY STORAGE





EnerPulse 123 | 30KW



User Friendly



Touch Screen



Solar Input



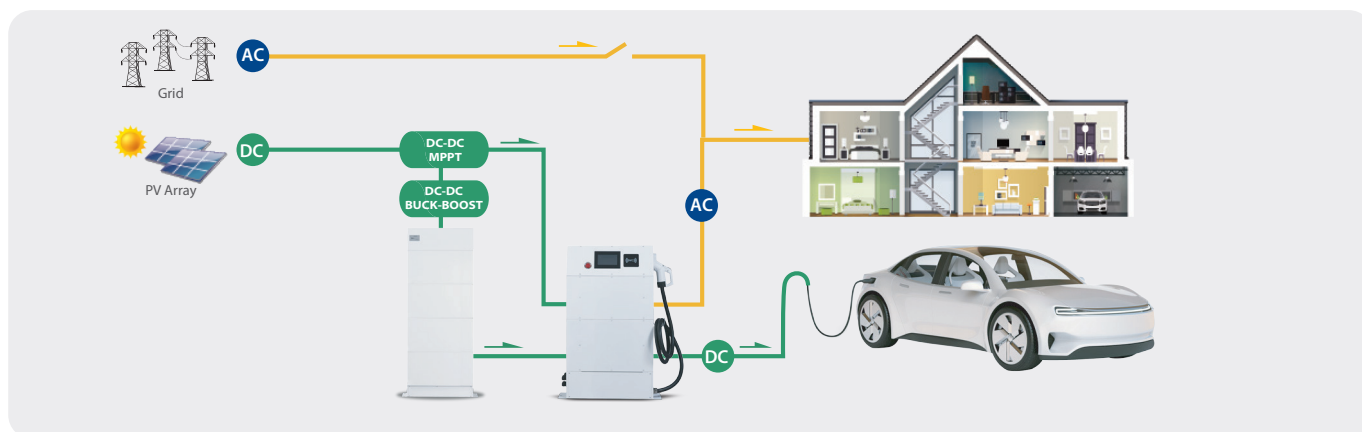
Battery Backup



- All-in-one home energy system to integrate 10kW solar inverter, 30kW EV Charger and 20kWh battery storage system
- Integrate 10kW Grid-Tie inverter and backup AC output for home storage system
- DC couple and AC couple to integrate existing solar system
- Lithium-Iron phosphate battery for long life and stable operation
- Supported 30KW DC EV charger to reduce charging time
- Supports multiple charging standards (GB, CCS2, CHAdeMO)
- Integrate OCPP and RF reader for remote payment & control
- IP65 protection level to extend the life time under critical environment
- Optional energy meter to establish self-consumption system

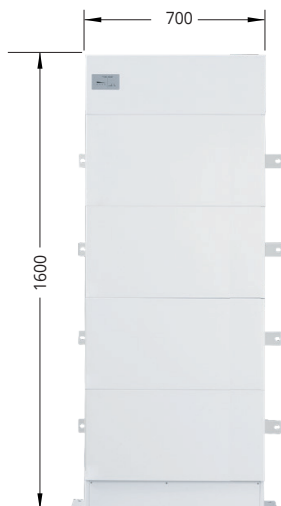


System Diagram

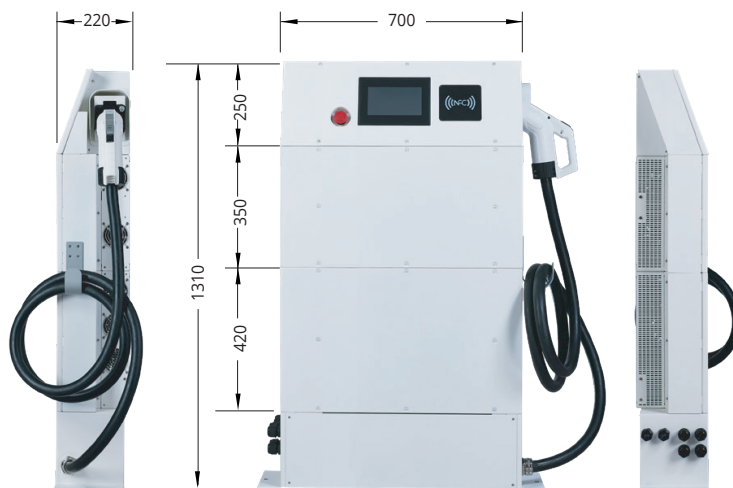


OVERVIEW

EnergyCube 405



ESS_EV





Specifications

MODEL		EnerPulse 123
PV INPUT PARAMETERS		
Maximum PV Input Power		14500 W
Maximum PV Input Voltage		1000 VDC
MPPT Voltage Range		350~900 VDC
MPPT Voltage Range @ Full Load		500~900 VDC
Start-up Voltage		320 VDC
Nominal Input Voltage		720 VDC
Maximum Input Current		A: 18 A ; B: 18 A
Max. Short-circuit Current		25 A
Number of MPPT Trackers		2
Number of Input Strings per MPPT Tracker		1
AC INPUT PARAMETERS		
AC Start-up Voltage / Auto Restart Voltage		120 - 140 VAC per phase / 180 VAC per phase
Acceptable Input Voltage Range		170 - 280 VAC per phase
Maximum AC Input Current		20 A
GRID-TIE OUTPUT PARAMETERS		
Nominal Output Power		10000VA/10000W
Max. Output Power		10000W
Nominal Output Voltage		230 VAC (Phase to N), L1/L2/L3/N/PE
Output Frequency		50/60 Hz
Max. Grid-tie Output Current		18 A per phase
Power Factor		0.8 lead to 0.8 lag
Maximum Input Current Distortion (THDi)		<5%
BACK UP OUTPUT PARAMETERS		
Rated Output Power		10000VA/10000W
Nominal Output Voltage		230 VAC (Phase to N), L1/L2/L3/N/PE
Nominal Output Frequency		50/60 Hz
Maximum Conversion Efficiency (solar to grid)		96%
Maximum Conversion Efficiency (solar to battery)		97%
Maximum Conversion Efficiency (battery to load)		96%
EV CHARGER OUTPUT PARAMETERS		
Charging Type		DC Fast Charging
Outlet Options		CCS2 (Default), CHAdeMO (Optional), GB/T (Optional)
Number of EV Served		Up to 1
DC Output Voltage		250~1000 VDC
DC Output Power Rating (Max.)		30KW
DC Output Current (Max)		80 A
Charging Cable Length		3.5m (6m Optional)
Rated Output Power		30 KW
Voltage Regulation Precision		± 0.5%
Current Regulation Precision		≤ ±1%
Short Circuit Current		≤ 10KA
Inrush Current		≤ 100 A
Leakage Current		≤ 0.8mA
Efficiency (DC-DC)		97% Peak
Energy Metering		Metering for DC outlets
Protection		OCP, OVP, UVL, Surge, DC Leakage
INTERFACE AND CONTROL		
Supported Charging Protocol		GB/CCS2/CHAdeMO
User Interface		7" LCD high-contrast touchscreen
BMS Communication		RS485
Communication		OCPP 1.6 Core and Smart Charging Profiles
RFID System		ISO/IEC 14443A/B, ISO/IEC 15393, FeliCa™ 1, NFC reader mode
Emergency Button		Yes

Battery Module specification

MODEL		EnergyCube 405
BATTERY MODULE PARAMETERS		
Battery Type		Lithium-Iron Phosphate Battery
Nominal Voltage		409.6 VDC
Full Charge Voltage (FC)		460.8 VDC
Discharge Cut-off Voltage		384 VDC
Typical Capacity		50 Ah
Typical Energy		20KWH
Max Continuous Discharging Current		60 A
Max Discharging Current		75 A
Charge Current		10 A
Max. Charge Power		25 A
Protection		BMS
GENERAL SPECIFICATON		
Operating Temperature Range (°C)		0~55°C
Storage Temperature Range (°C)		-20~70°C
Relative Humidity Range		0~95%
Max. Altitude		Up to 2000m
Mounting		Free-standing cabinet
Dimension, D x W x H (mm)	ESS_EV	220 x 700 x 1310
	EnergyCube 405	220 x 630 x 1600
Net Weight (kgs)	ESS_EV	80
	EnergyCube 405	221

Product specifications are subject to change without further notice



EnerPulse 333+ | 30KW- 120KW

Solar DC EV Charger with Energy Storage



IP54 Rated



User Friendly



Touch Screen



Commercial



Wide DC Output Voltage Range



Fast charging



High Efficiency



OCPP



PEV 5430GD-DM



Energrid WP 30KM-HV 30kW Solar Inverter

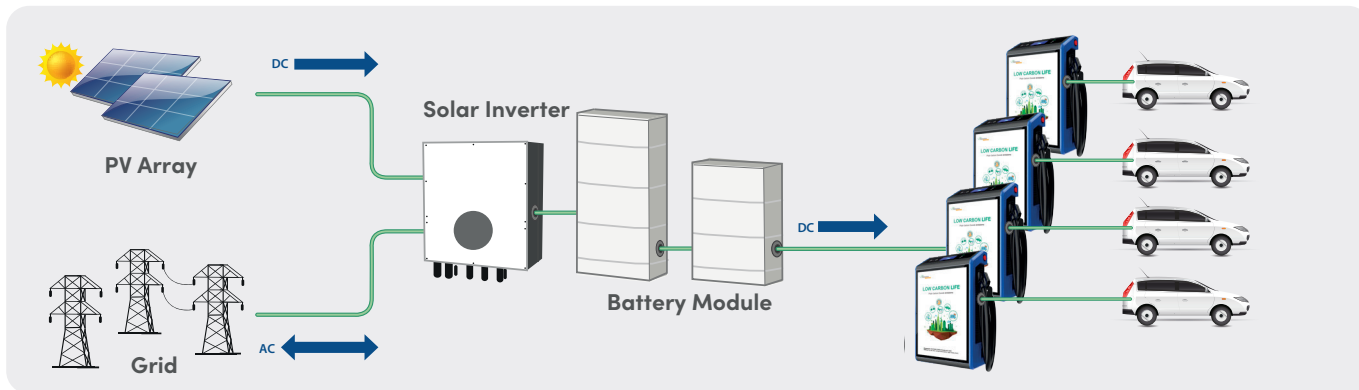
Lithium Iron Phosphate (LFP) Battery Pack



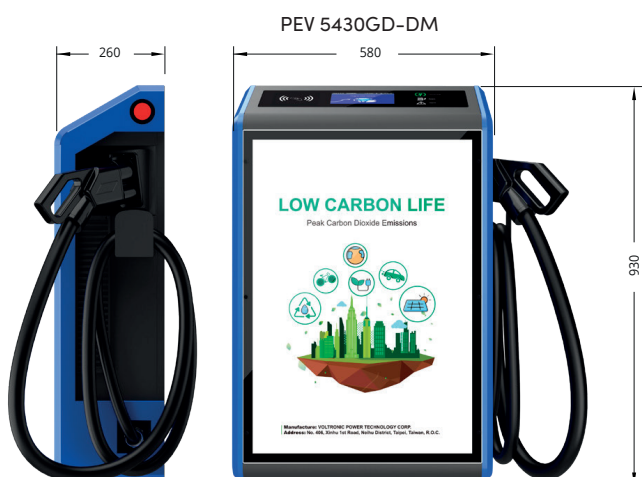
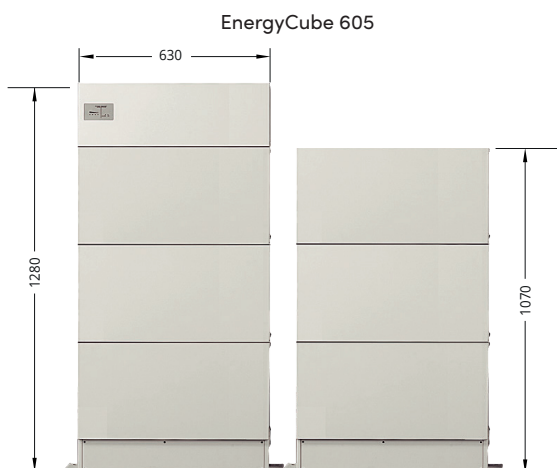
EnergyCube 605 (30kWh)

- 30KW solar inverter, 30kWh LiFePO4 battery module and 30KW DC coupling type DC EV charger
- High efficiency energy storage with fast EV charger
- Built-in dual outputs in hybrid inverter for smart load management
- LFP (LiFePO4) battery for long life and stable operation
- Supports multiple charging standards (GB,CCS2 and CHAdeMO)
- Integrated OCPP and RF reader for remote payment & control
- IP65 protection level for hybrid inverter to extend the life time under critical environment
- DC couple and AC couple to integrate existing solar system
- Parallel operation up to 4 units for Energrid WP 30KM-HV
- Optional energy meter to establish self-consumption system

System Diagram



DIMENSIONS





Specifications

INVERTER MODEL		Energrid WP 30KM-HV
Maximum PV Input Power		40,000 W
Rated Output Power		30,000 W
Maximum Charging Power		30,000 W
PV INPUT (DC)		
Nominal DC Voltage / Maximum DC Voltage		720 VDC / 1000 VDC
Start-up Voltage / Initial Feeding Voltage		320 VDC / 350 VDC
MPP Voltage Range		350 VDC ~ 900 VDC
Number of MPP Trackers / Maximum Input Current		3 / A: 26A, B: 26A, C: 26A
GRID OUTPUT		
Nominal Output Voltage		230 VAC (P-N) / 400 VAC (P-P)
Output Voltage Range		184 - 265 VAC per phase
Max. Output Current		43.5 A per phase
Maximum Conversion Efficiency (DC/AC)		96.5%
European Efficiency @ Vnominal		96%
AC INPUT		
AC Start-up Voltage / Auto Restart Voltage		120 - 140 VAC per phase / 180 VAC per phase
Acceptable Input Voltage Range		170 -280 VAC per phase
Maximum AC Input Current		50 A
BATTERY MODE OUTPUT (AC)		
Nominal Output Voltage		230 VAC (P-N) / 400 VAC (P-P)
Maximum Conversion Efficiency (DC/AC)		97%
BATTERY & CHARGER		
Nominal DC Voltage		500 ~ 900 VDC
Maximum Charging Current		50 A
PHYSICAL		
Dimension, D x W x H (mm)		255 x 660 x 750
Net Weight (kgs)		73
BATTERY MODEL		
CONTROLLER BOX MODULE		EnergyCube 605
		HVC 05
SINGLE BATTERY MODULE		HVB 05 (102.4V/50Ah, 5120Wh)
NUMBERS OF MODULES		6
PARAMETERS		
Nominal Voltage		614.4VDC
Full Charge Voltage (FC)		691.2VDC
Full Discharge Voltage (FD)		537.6VDC
Typical Capacity		50Ah
Typical Energy		30kWh
Max Continuous Discharging Current		60A
Max Peak Discharging Current		75A
Protection		BMS & Circuit Breaker
Charge Voltage		672VDC
Charge Current		10A
Maximum Charge current		25A
Standard Charge Method		0.2C CC (Constant current) charge to FC, CV (Constant voltage FC) charge till charge current decline to <0.05C
Cycle Life		6000 Cycles @>80% capacity
Inner Resistance		≤20m ohm
Operating Temperature	Charge	0°C~55 °C
	Discharge	0°C~55 °C
Compliance Safety		IEC 62619, UN38.3
PHYSICAL		
Single Battery Module	Dimension, D x W x H (mm)	220 x 630 x 320
	Net Weight (Kg)	51.3
Controller Box	Dimension, D x W x H (mm)	220 x 630 x 210
	Net Weight (Kg)	9.95
Complete Set	Dimension, D x W x H (mm)	220 x 630 x 1280 & 220 x 630 x 1070
	Net Weight (Kg)	328

Product specifications are subject to change without further notice.

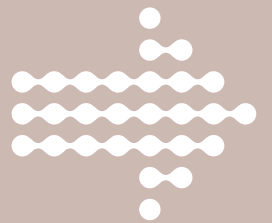


Specifications

MODEL		PEV 5430GD-DM
Charging Type		DC fast charging
Outlet Options		CCS2 (Default), CHAdeMO (Optional), GB/T (Optional)
DC Input Voltage Range		600-800V
DC Input Power @ 600VDC		54 A, 33 kW
DC Outlet	DC Output Power Rating	30 kW
	DC Output Voltage	150-1000 Vdc (Constant power from 300-1000Vdc)
	Number of EV Served	1
	Maximum Current*	CCS Cables
CHAdeMO Cables		100A
GBT Cables		100A
Cable Length		5.0 m, Optional: 6.0 m / 7.0 m
Electro-Magnetic Compatibility		Class A (optional Class B) according to EN 61000-6-3:2007
Distribution Systems		Direct Current (DC) System
Connector Type		DC 2-Pole connector (Positive/Negative) with Ground
Protection		Reverse Polarity Protection, Overcurrent, overvoltage, undervoltage, surge protection, ground fault, door safety protection, flood detection protection
Efficiency		94% (peak)
Standby Power		< 35 W
Pre-charge Current		< 1 A
Leakage Current		0.8 mA
Energy Metering		Meter for DC inlet and DC outlet
Cellular Communication		GSM, 4G, LTE
USER INTERFACE		
Connectivity		4G/3G/Ethernet (RJ45)
User Authentication		RFID, QR code
User Interface		7" LCD high-contrast touchscreen, optional 15.6" or 32" LCD display
Communication Protocols		Proprietary and OCPP 1.6j
RFID Reader		ISO/IEC 14443 A Mifare RFID reader
Emergency Button		Yes
CONFIGURATION		
Software Upgrade		Yes
Language System		English, Chinese, French, Spanish
GENERAL CHARACTERISTICS		
Protection Rating		IP54 and IK10 (enclosure) / IK8 (touchscreen) / IP55 (connector)
Housing Material		SGCC, Optional: SUS430
Operating Altitude		Up to 2000 m
Operating Temperature		-35 °C to +55 °C
Storage Temperature		-40 °C to +70 °C
Humidity		<95%, non-condensing
Mounting		Free-standing cabinet
Dimensions (D x W x H) mm		235.5 x 660 x 1250
Net Weight (kgs)		80
COMPLIANCE STANDARDS		
Codes & Standards		IEC/EN 61851-1, IEC 61851-23, IEC 61851-24, IEC 62196-1, IEC 62196-3, GBT18487, GBT20234
Communication to the EV		DIN 70121, ISO/IEC 15118, CHAdeMO, GBT27930, GBT 34657, GBT 34658

*Cable can be customized upon request.
Product specifications are subject to change without further notice

LITHIUM ION BATTERIES



EnergyCube 205-605

- High voltage type Lithium-ion battery modules
- Lithium Iron Phosphate (LFP) cell guarantees safety and reliability
- Parallel operation up to 5 units for energy expansion
- Suitable for wide range of solar inverters with high-voltage



Compact size and Lightweight

Built-in Lithium Iron Phosphate (LFP) cell with less space and weight.



Fast charging

Battery module can be fully charged in shorter time.



Modular design for easy scalable

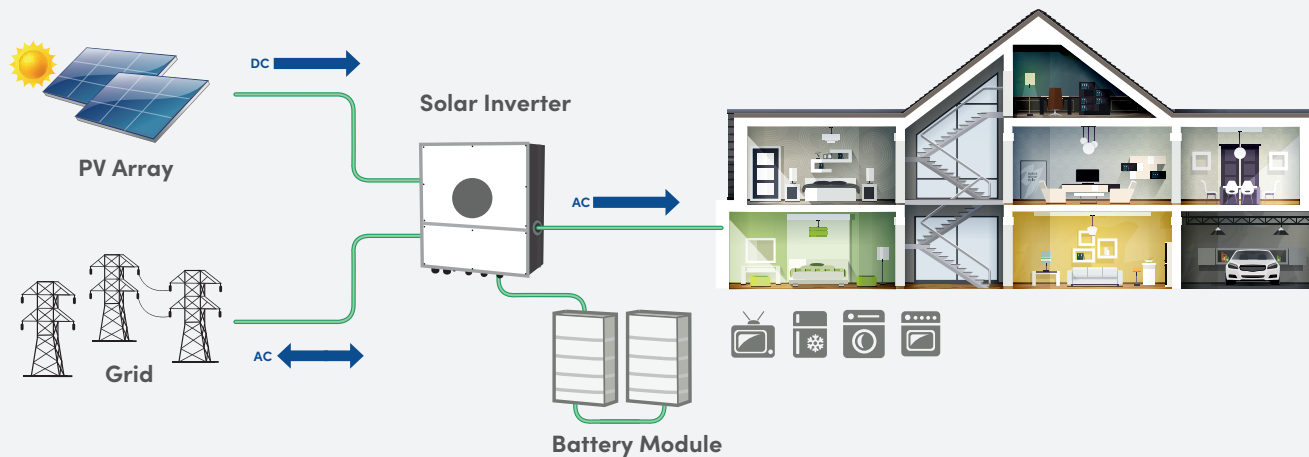
Battery module can be easily stacked and added for energy expansion.



Maximum Lifecycle

8000 cycles is for 60% DOD with >50% capacity
 6000 cycles is for 80% DOD with >80% capacity
 4000 cycles is for 90% DOD with >80% capacity

System Diagram



Specifications


BATTERY MODEL	EnergyCube 205	EnergyCube 305	EnergyCube 405	EnergyCube 605	
CONTROLLER BOX MODULE	HVC 05	HVC 05	HVC 05	HVC 05	
SINGLE BATTERY MODULE	HVB 05 (102.4V/50AH, 5120Wh)	HVB 05 (102.4V/50AH, 5120Wh)	HVB 05 (102.4V/50AH, 5120Wh)	HVB 05 (102.4V/50AH, 5120Wh)	
NUMBERS OF MODULES	2	3	4	6	
PARAMETERS					
Nominal Voltage	204.8VDC	307.2VDC	409.6VDC	614.4VDC	
Full Charge Voltage (FC)	224VDC	336VDC	448VDC	672VDC	
Full Discharge Voltage (FD)	179.2VDC	268.8VDC	358.4VDC	537.6VDC	
Typical Capacity	50Ah				
Typical Energy	10kWh	15kWh	20kWh	30kWh	
Max Continuous Discharging Current	60A				
Max Peak Discharging Current	75A				
Protection	BMS & Circuit Breaker				
Charge Current	10A	10A	10A	10A	
Maximum Charge Current	25A	25A	25A	25A	
Standard Charge Method	0.2C CC (Constant current) charge to FC, CV (Constant voltage FC) charge till charge current decline to <0.05C				
Cycle Life	6000 Cycles @>80% capacity				
Inner Resistance	≤20m ohm				
Operating Temperature	Charge	0°C~55 °C			
	Discharge	0°C~55 °C			
Compliance Safety	IEC 62619, UN38.3				
PHYSICAL					
Single Battery Module	Dimension, D x W x H (mm)	220 x 630 x 320	220 x 630 x 320	220 x 630 x 320	220 x 630 x 320
	Net Weight (Kg)	51.3	51.3	51.3	51.3
Controller Box	Dimension, D x W x H (mm)	220 x 630 x 210	220 x 630 x 210	220 x 630 x 210	220 x 630 x 210
	Net Weight (Kg)	9.95	9.95	9.95	9.95
Complete Set	Dimension, D x W x H (mm)	220 x 630 x 960	220 x 630 x 1280	220 x 630 x 1600	220 x 630 x 1280 & 220 x 630 x 1070
	Net Weight (Kg)	118	169	221	328

Product specifications are subject to change without further notice.

Energy Hub 1228-1528

- High voltage type Lithium-ion battery modules
- Lithium Iron Phosphate (LFP) cell guarantees safety and reliability
- Suitable for wide range of solar inverters with high-voltage



Energy Hub 1228

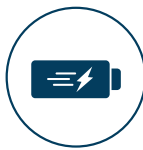


Energy Hub 1528



Compact size and Lightweight

Built-in Lithium Iron Phosphate (LFP) cell with less space and weight.



Fast charging

Battery module can be fully charged in shorter time.



Modular design

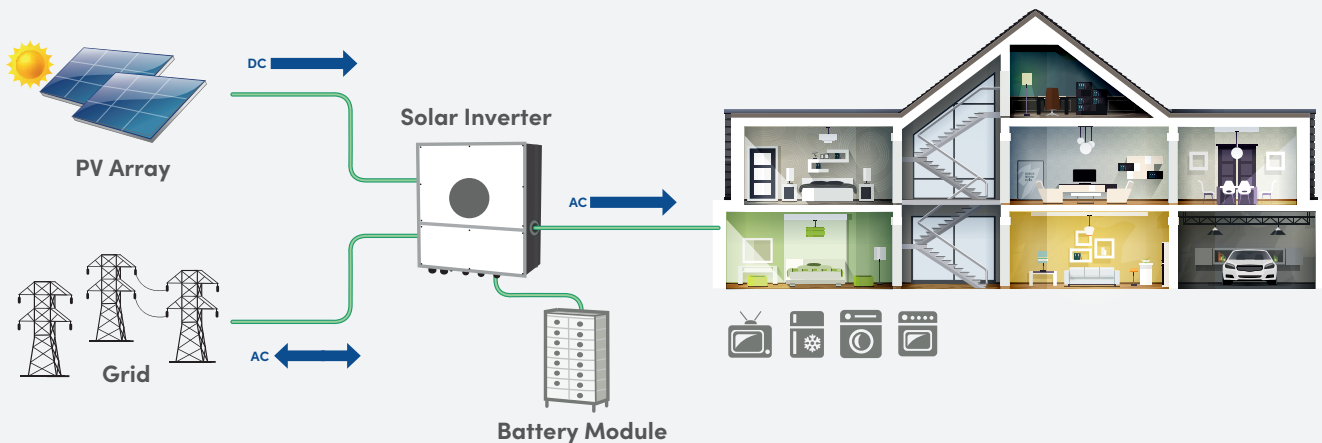
Battery modules are configured to achieve high power output.



Maximum Lifecycle

8000 cycles is for 60% DOD with >50% capacity
 6000 cycles is for 80% DOD with >80% capacity
 4000 cycles is for 90% DOD with >80% capacity

System Diagram



Specifications



BATTERY MODEL		Energy Hub 1228	Energy Hub 1528
Controller Box Module		HVC 280	
Single Battery Module		HVB 280 (51.2V/280AH, 14.3KWh)	
Numbers Of Modules		12	15
PARAMETERS			
Nominal Voltage		614.4VDC	768VDC
Full Charge Voltage (FC)		691VDC	840VDC
Full Discharge Voltage (FD)		576VDC	720VDC
Typical Capacity		280 Ah	
Typical Energy		172KWh	215KWh
Max Continuous Discharging Current		170A (0.6C)	
Max Peak Discharging Current		200A	
Protection		BMS	
Charge Voltage		691VDC	840VDC
Charge Current		30A	
Maximum Charge Current		140A (0.5C)	
Communication Protocol		CAN	
Standard Charge Method		0.2C~0.6C CC (Constant current) charge to FC, CV (Constant voltage FC) charge till charge current decline to <0.05C	
Inner Resistance		≤20m ohm	
Cycle Life		>6000 Cycle @ 0.6C/0.6C Charge & Discharge with 90% DoD with 80% remain capacity	
PHYSICAL			
Single Battery Module	Dimension, D x W x H (mm)	805 x 523 x 231	
	Net Weight (Kg)	120	
Controller Box	Dimension, D x W x H (mm)	799 x 523 x 234	
	Net Weight (Kg)	30	
Complete Set	Dimension, D x W x H (mm)	820 x 1062 x 2355	
	Net Weight (Kg)	1745	2105

Product specifications are subject to change without further notice.



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